

REMARKS

Accompanying this response, please find marked-up paragraphs of the specification which overcome some informalities noted in the specification. The undersigned avers that the enclosed replacement paragraph(s) of the specification do not contain any new matter.

In the event that there are any fee deficiencies or additional fees are payable, please charge the same or credit any overpayment to our Deposit Account (Account No. 04-0213).

Respectfully submitted,



Michael J. Bujold, Reg. No. 32,018

Customer No. 020210

Davis & Bujold, P.L.L.C.

Fourth Floor

500 North Commercial Street

Manchester NH 03101-1151

Telephone 603-624-9220

Facsimile 603-624-9229

E-mail: patent@davisandbujold.com

[008] SUMMARY OF THE INVENTION

[009] The object of the present invention, particularly in the above-mentioned respect, is to in combination improve and develop the state of the art in this technical field.

[010] This object is attained according to the present invention by designing an apparatus for operating gates and the like, according to the introduction, mainly as set forth in the characterizing clause of claim 1. Additional characterizing features and advantages of the invention are mentioned in the following description, reference being made to the enclosed drawings, which in a schematic and only non-limiting, exemplifying way show a preferred embodiment of the invention. The drawings show in detail in :

[011] BRIEF DESCRIPTION OF THE INVENTION

[012] Fig 1 a lateral view of a pressure generating unit in an apparatus for operating gates and the like according to the invention, which unit is actuated by an approaching private car;

[013] Fig 2 a lateral view of a pivoting mechanism in the apparatus according to the invention;

[014] Fig 3 the mechanism according to Fig 2, seen from above;

[015] Fig 4 a schematic diagram for a hydraulic circuit in the apparatus according to the invention;

[016] Fig 5 a perspective view from above of a preferred embodiment of an apparatus for operating gates and the like according to the invention;

[017] Fig 6 a perspective view of a detail shown in Fig 5; and

[018] Fig 7 an alternative schematic diagram, similar to the one shown in Fig 4.

[019] DETAILED DESCRIPTION OF THE INVENTION

[020] It is principally feasible to design an apparatus according to the invention in such a way, that the gate, which also can comprise two halves, always will be opened horizontally away from an approaching vehicle, regardless of from which side it arrives, but in this specification only the more practical case is described of a gate, which can be moved against a stop in or beside the gate opening and consequently always is opened and closed in the same direction, e.g. with the

[001] APPARATUS FOR OPERATING GATES AND THE LIKE

[002] The present invention relates to an apparatus for operating gates defined in more detail in the preamble of claim 1.

[003] FIELD OF THE INVENTION

[004] Such operative apparatuses are primarily used in places without the use of electricity, e.g. used to open and close gates in fences, designed to protect wild animals and fences designed to mark off pasture land. These apparatuses are designed to, when a vehicle arrives to the immediate surroundings of a gate, on either side of the gate, automatically open the gate and after a certain time, when the vehicle has passed the gate opening, close the gate again.

[005] Examples of already made proposals for such operative apparatuses are mentioned in GB-A-2 322 669, US-A-4 115 954 and AU-A1-65 309/80.

[006] These known solutions have various drawbacks and consequently they have never had any impact on the market. None of these publications meets a substantial number of various requirements in combination, which is a prerequisite for a general applicability, since it is hardly defensible, to a larger extent than what is very exceptional, to have to repair, serve and replace such devices, which thus in combination must meet the following requirements:

[007] Very far reaching but not completely maintenance-free; independent of the use of electricity, solar cells, engines, fuels, compressed air units etc; functioning in practically all climatic conditions, e.g. from -30°C to $+60^{\circ}\text{C}$; absolutely reliable and having a very large life; an opening and a closing of the gate without requiring, that a person in the approaching and passing respectively vehicle must leave it; selective actuatability solely by vehicles, particularly cars and not by e.g. human beings, wild animals or cattle; faultless functioning in the case of e.g. small private cars and heavy trucks; without complicated and expensive special means easily adjustable opening, opening keeping and closing times; smooth closing processes; noiselessness; possibility of module construction for a simple production and mounting; mounting possibility on existing constructions, e.g. stakes, and using existing stakes.